

SPECIFICATIONS FOR NON-DECLUTCHING MANUAL OVERRIDE WORM GEAR ACTUATORS:

Definition

DYNATORQUE™ Direct-Mount Non-Declutching Manual Overrides are suited for manual override applications where spring return pneumatic actuators with accurately calculated torque requirements are used. This override provides rotation in the direction opposite the fail position only. Rotation in the fail position is provided by the spring return pneumatic. Operators in this category are totally enclosed, weatherproof and permanently lubricated. Operators are suitable for use in all handwheel applications and chainwheel applications using DYNATORQUE chainwheel adapters, with the exception of the DT3SRD and DT7SRD, which are not suitable for chainwheel operation. The override is designed to mount between the valve and its primary driving mechanism.

Construction

Unit housing and covers are iron; worms are heat-treated carbon steel; worm wheels are cast ductile iron; input shafts are carbon steel with yellow zinc plating; shaft and worm wheel seals are Buna-N rubber; housing to cover seals are RTV#732; bushings are oil impregnated copper nickel steel alloy. Both drive couplings and drive coupling key connections are manufactured using carbon steel.

Model	Unit Wgt. Lbs.	Output Torque Lbs.-In	Gear Ratio	Turns for 90 Deg.	Std. Output Bore	Std. Keyway Size Sq.	Std. Mounting Pattern		Mech. Adv.	Hdw. Size	Rim Pull Lbs.
							Qty. and Size	BCD			
DT3SRD	19	3000	30:1	7.5	1.250"	.25x.188	(4) 5/16-18	2.756	8.1	10"	74
DT7SRD	27	7000	48:1	12	1.750"	.50x.375	(4) 3/8-16	4.016	12.96	14"	77
DT12SRD	43	12,000	57:1	14.25	2.000"	.375 sq.	(4) 1/2-13	4.921	13.68	18"	95
DT21SRD	61	21,000	60:1	15	2.500"	.500 sq.	(4) 5/8-11	5.512	22.5	24"	78
DT36SRD	126	36,000	53:1	13.25	3.250"	.750 sq.	(4) 3/4-10	6.496	19.0	36"	105
DT40SRD	126	40,000	79:1	19.75	3.250"	.750 sq.	(4) 3/4-10	6.496	27.6	36"	81
DT50SRD	149	50,000	212:1	53	3.250"	.750sq.	(4) 3/4-10	6.496	60.8	20"	82
DT54SRD	151	63,000	318:1	79	3.250"	.750 sq.	(4) 3/4-10	6.496	91.2	18"	77
DT90SRD	258	90,000	240:1	60	4.000"	.750 sq.	(8) 5/8-11	10.00	49.92	36"	100
DT140SRD	261	140,000	360:1	90	4.000"	1.00 sq.	(8) 5/8-11	10.00	78.00	36"	100
DT200SRD	724	200,000	600:1	150	6.250"	1.50x1.0	(8)1 1/8-7	14.016	150	36"	75
DT260SRD	764	260,000	1200:1	300	6.250"	1.50x1.0	(8)1 1/8-7	14.016	264	24"	82

- Note:**
1. The DT50SRD, DT54SRD, DT90SRD, DT140SRD, DT200SRD, and DT260SRD all have a spur assist.
 2. Handwheels listed are recommended sizes to produce full rated torque with rim effort listed.
 3. Bores, keyways and mounting patterns listed are for DYNATORQUE standard units.
Please consult factory for special bore treatments, costs and deliveries.
 4. Standard mounting patterns on the DT3SRD through the DT260SRD are per ISO 5211 specifications.
 5. Standard units are supplied with handwheel listed and blank drive adapter.

DYNATORQUE Manufacturing & Sales
2076 Northwoods Dr.
Muskegon, MI 49442
Tel 231.788.7025, Fax 231.788.7030
DYNATORQUE@c-a-m.com | www.c-a-m.com/DYNATORQUE